

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1312116

Luminaire Tested: LDSQA3D02R409050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

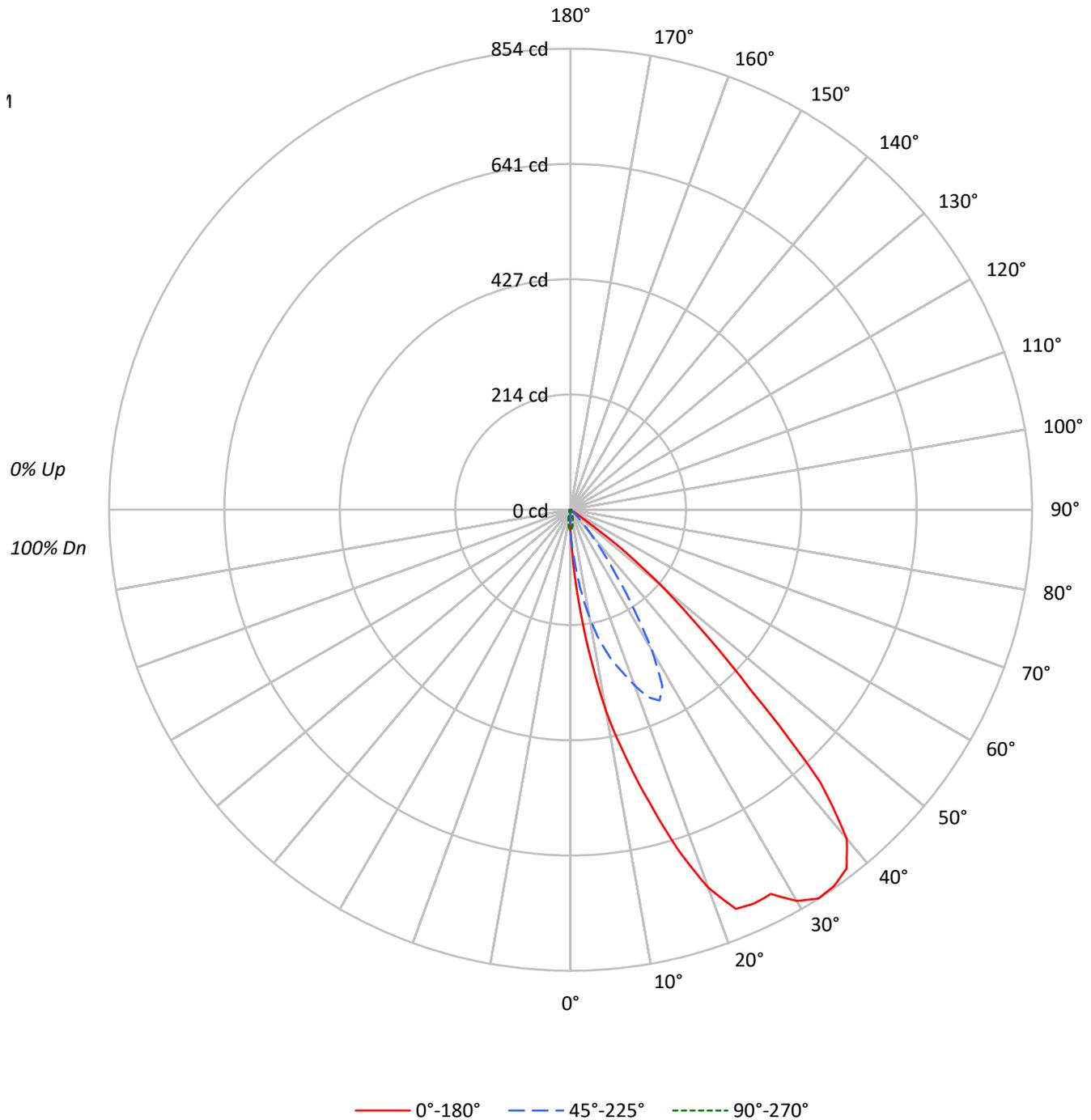
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 315.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1312116  
CATALOG NUMBER: LDSQA3D02R409050DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1312116

CATALOG NUMBER: LDSQA3D02R409050DE010 3LSQCA30R 1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	6424	6424	6424	6424	6424
5°	28957	18464	5757	2213	1608
10°	66384	35658	4057	787	612
15°	99633	50601	2514	428	374
20°	136430	63432	1466	238	293
25°	152933	74110	760	209	247
30°	166351	59819	318	159	259
35°	178771	30612	105	231	336
40°	178845	12208	67	247	427
45°	114181	4092	122	390	585
50°	59266	509	214	509	723
55°	5104	90	240	631	871
60°	172	103	276	723	999
65°	204	122	448	774	1100
70°	151	151	554	806	1057
75°	200	200	532	865	1264
80°	298	298	793	793	1091
85°	0	593	1581	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 114181 cd/sqm



TEST NUMBER: P1312116

CATALOG NUMBER: LDSQA3D02R409050DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	2.3
10°-20°	42.6	13.5
20°-30°	93.4	29.6
30°-40°	106.4	33.8
40°-50°	56.1	17.8
50°-60°	6.6	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	143.3	45.5
0°-40°	249.6	79.2
0°-60°	312.4	99.2
0°-90°	315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	168	107	33	13	9	23
15°	559	284	14	2	2	165
25°	805	390	4	1	1	371
35°	850	146	0	1	2	527
45°	469	17	0	2	2	378
55°	17	0	1	2	3	53
65°	0	0	1	2	3	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1312116

CATALOG NUMBER: LDSQA3D02R409050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	83.1	83.1	82.8	80.4	80.1	79.9	75.6	74.5	69.5	66.0	50.3
5°	167.5	163.7	163.5	159.2	152.0	142.4	136.3	126.5	116.9	106.8	62.0
7.5°	266.8	270.0	261.2	256.6	240.7	229.2	211.7	196.2	174.6	154.4	71.6
10°	379.6	374.1	365.3	356.5	339.2	318.7	292.6	265.2	234.0	203.9	76.9
12.5°	467.8	460.6	455.3	443.3	426.2	399.9	368.7	332.0	290.7	247.3	76.7
15°	558.8	551.6	539.7	529.0	503.7	474.2	440.3	391.9	341.3	283.8	71.1
17.5°	658.9	649.6	636.3	620.1	595.6	562.8	520.0	460.8	389.2	313.6	61.0
20°	744.4	738.8	725.5	706.3	682.4	650.4	600.9	535.4	448.1	346.1	48.5
22.5°	800.3	795.2	786.2	769.4	751.3	717.2	672.0	600.1	497.3	375.7	36.7
25°	804.8	802.7	800.3	794.7	783.8	759.6	715.4	637.9	527.9	390.0	27.2
27.5°	802.4	801.6	801.1	798.2	791.0	767.0	721.8	643.5	523.9	367.7	20.0
30°	836.5	834.1	832.8	823.2	804.3	767.3	708.2	613.4	465.6	300.8	14.4
32.5°	853.8	853.3	851.9	842.6	816.0	767.8	685.3	540.7	369.3	217.2	9.9
35°	850.3	847.7	842.9	825.6	788.6	728.1	611.3	431.8	266.5	145.6	6.4
37.5°	838.6	832.5	823.2	792.0	742.8	660.3	495.7	317.9	181.3	94.2	3.7
40°	795.5	787.2	772.6	734.5	669.8	544.2	366.6	214.8	119.0	54.3	1.1
42.5°	684.0	673.3	662.7	620.1	546.0	405.7	241.2	132.8	67.9	29.8	0.3
45°	468.8	455.5	440.9	410.0	350.6	245.7	143.5	74.8	35.1	16.8	0.3
47.5°	325.6	319.5	293.9	254.5	195.1	130.2	74.3	36.7	18.6	7.7	0.3
50°	221.2	214.3	184.5	146.4	103.8	62.3	34.1	18.4	8.3	1.9	0.3
52.5°	116.1	107.6	88.7	67.6	42.1	26.1	14.9	8.0	2.4	0.3	0.3
55°	17.0	15.7	12.8	10.4	9.3	7.2	4.3	1.9	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1312116

CATALOG NUMBER: LDSQA3D02R409050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	37.3	37.3	37.3	37.3	37.3
2.5°	36.7	27.2	21.0	18.1	17.8
5°	33.3	19.4	12.8	9.9	9.3
7.5°	28.2	13.6	7.5	5.3	5.1
10°	23.2	9.3	4.5	3.7	3.5
12.5°	18.4	6.1	3.2	2.9	2.7
15°	14.1	4.0	2.4	2.1	2.1
17.5°	10.6	2.7	1.9	1.9	1.9
20°	8.0	1.9	1.3	1.6	1.6
22.5°	5.6	1.3	1.1	1.3	1.3
25°	4.0	1.1	1.1	1.3	1.3
27.5°	2.7	0.8	0.8	1.1	1.3
30°	1.6	0.5	0.8	1.1	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.1	1.3	1.6
37.5°	0.3	0.8	1.1	1.6	1.6
40°	0.3	0.8	1.1	1.6	1.9
42.5°	0.5	1.1	1.3	1.9	2.1
45°	0.5	1.1	1.6	2.1	2.4
47.5°	0.5	1.1	1.9	2.4	2.4
50°	0.8	1.3	1.9	2.4	2.7
52.5°	0.8	1.3	1.9	2.7	2.9
55°	0.8	1.3	2.1	2.7	2.9
57.5°	0.8	1.6	2.1	2.7	2.9
60°	0.8	1.3	2.1	2.7	2.9
62.5°	1.1	1.3	1.9	2.7	2.7
65°	1.1	1.3	1.9	2.7	2.7
67.5°	1.1	1.3	1.9	2.4	2.4
70°	1.1	1.3	1.6	2.1	2.1
72.5°	1.1	1.3	1.6	1.9	2.1
75°	0.8	1.1	1.3	1.6	1.9
77.5°	0.8	1.1	1.1	1.6	1.6
80°	0.8	0.8	0.8	1.1	1.1
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)